

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A superconducting cable comprising:
 - a former made of a normal-conducting metal;
 - a first superconducting layer formed around the outer circumference of said former and in electrical communication with the former;
 - an electric insulating layer formed around the outer circumference of said first superconducting layer;
 - a second superconducting layer formed around the outer circumference of said electric insulating layer; and
 - a normal-conducting metal layer is formed ~~only~~ between said electric insulating layer and said second superconducting layer; any volume between the first superconducting layer and said electrical insulating layer is free of the normal conducting metal layer; and any volume between the second superconducting layer and an outer layer is free of the normal conducting metal layer; andwherein said first and second superconducting layers are in a state cooled by a refrigerant.
2. (Cancelled).
3. (Previously Presented) The superconducting cable according to claim 1, wherein said normal-conducting metal layer is formed by winding round wires with a round cross section or tape-shaped wires formed from a normal-conducting metal.
4. (Previously Presented) The superconducting cable according to claim 3, further comprising wire insulating layers around outer circumferences of the wires.
5. – 7. (Cancelled).
8. (Original) The superconducting cable according to claim 1, wherein said superconducting wires have a matrix ratio within a range between 1.5 or more and 3.0 or less.

9. – 10. (Cancelled).

11. (Currently Amended) A superconducting cable comprising:
a former made of a normal-conducting metal;
a first superconducting layer formed around the outer circumference of said former and in electrical communication with the former;
an electric insulating layer formed around the outer circumference of said first superconducting layer;
a second superconducting layer formed around the outer circumference of said electric insulating layer;
a no more than one normal-conducting metal layer is formed between said electric insulating layer and in contact with said second superconducting layer; and
wherein said first and second superconducting layers are in a state cooled by a refrigerant.

12. (Previously Presented) The superconducting cable of claim 11, wherein said normal-conducting metal layer is in contact with said electric insulating layer.

13. (Previously Presented) The superconducting cable of claim 11, wherein said normal-conducting metal layer is formed by winding round wires with a round cross section or tape-shaped wires formed from a normal-conducting metal.

14. (Previously Presented) The superconducting cable according to claim 13, further comprising wire insulating layers around outer circumferences of the wires.

15. (Previously Presented) The superconducting cable according to claim 11, wherein said superconducting wires have a matrix ratio within a range between 1.5 or more and 3.0 or less.